



PAC-550-MIL

Rugged Military-Grade Design

The PAC-550-MIL antenna controller is engineered for the most demanding military environments. It is the product of decades of specialized R&D and rigorous testing, ensuring reliable, mission-critical performance for tactical satellite communications under any condition.

Rapid, Simplified Satellite Acquisition

Designed for operational ease, it enables rapid satellite acquisition in under three minutes with minimal operator training. Advanced algorithms automate pointing and tracking, while its intuitive interface—available on a built-in display or web browser—eliminates the need for external computers.

Secure & Network-Ready System Integration

The controller ensures system integrity with three levels of programmable user accounts to prevent unauthorized access. For seamless operational integration, it supports SNMP protocol, allowing for direct management within larger defense communication networks. Its optional beacon receiver further enhances precision in dynamic operational environments.

Key Features

- Ruggedized Design
- Full Graphical Front Panel Display:
- Alphanumeric Keypad for Ease of Use
- Stow Prevention Key for Maintenance
- Integrated DVB-S/S2 Receiver
- Integrated 10 MHz Generator with Auto External Switching
- Built in Self Test
- Satellite Memory Tracking
- Optional Integrated Beacon Tracking
- Optional Integrated De-Ice System Controller



GENERAL SPECIFICATIONS

Processor
Topology
RF Receiver
Peripherals
10 MHz Generator

PAC-550-MIL

120 MHz ARM Multiprocessors
Indoor and Outdoor Units
DVB S/S2, Beacon (optional), AGC
GPS and GLONASS Receiver, Inclinometer, True Compass, 3 Axes Motor Drive, 16-bit Absolute Resolver Drive
Internal generator for LNB input. Internal Generator Output Port. External Signal Input Port (Automatically Switches to External). User configurable.

MONITOR AND CONTROL SPEC.

HMI
Remote
Monitor Ports

PAC-550-MIL

Fully Graphical Front Panel Screen with EMC Shield, Alphanumeric Keypad
RJ-45 port for full responsive web interface (no software needed) and SNMP v2c support
Input Signal Monitoring Port

PHYSICAL FEATURES

Dimensions
Weight

PAC-550-MIL

424 (19") x 551 x 88 (2RU) mm
14 kg

ELECTRICAL SPECIFICATIONS

Power Rating
Power Consumption
LNB Power
Misc.

PAC-550-MIL

90-264 VAC, 47-63 Hz
325 W max (except de-ice)
13/15/18 VDC and 22 KHz User Configurable Supply
Internal Power Factor Corrector and Line Filter

ENVIROMENTAL SPECIFICATIONS

Tempertaure Range Operational
Tempertaure Range Survival
Humidity
Low Pressure Operational
Low Pressure Survival
Thermal Shock
Vibration
Mechanical Shock
Electromagnetic

PAC-550-MIL

-10 °C - +55 °C Compliant with MIL-STD-810G Method 501.5 and Method 502.5
-20 °C - +60 °C Compliant with MIL-STD-810G Method 501.5 and Method 502.5
%95 Cycling Temp Compliant with MIL-STD-810G Method 507.5
3000 meters Compliant with MIL-STD-810G Method 500.5
4500 meters Compliant with MIL-STD-810G Method 500.5
-20 to +60 cyclic shock Compliant with MIL-STD-810G Method 503.5
Cat. 4 and Cat. 10 on all axes Compliant with MIL-STD-810G Method 514.6
20 G, 11 ms on all axes Compliant with MIL-STD-810G Method 516.5
Compliant with MIL-STD461F; CE102, CE106, CS101, CS114, CS115, CS116, RE102, RS103

Specifications are subject to change.